



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION  
**NOTICE OF ACCEPTANCE (NOA)**

MIAMI-DADE COUNTY, FLORIDA  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**WinDoor, Inc.**  
**7500 Amsterdam Drive**  
**Orlando, FL 32832**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION:** Series "9060" Thermally Broken Aluminum Casement Window – L.M.I.

**APPROVAL DOCUMENT:** Drawing No. 08-01902, titled "Series 9060 Casement Window Large Missile Impact", sheets 01 through 13 of 13, dated 01/14/13 with revision "C" dated 07/15/13, prepared by manufacture, signed and sealed by Luis R. Lomas, P. E., bearing the Miami-Dade County Product Control Section Approval stamp with the Notice of Acceptance number and Approval date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING:** Large and Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/ series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



*J. Gascon*  
*8/1/13*

NOA No. 13-0129.25  
Expiration Date: August 08, 2018  
Approval Date: August 08, 2013  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **08-01902**, titled "Series 9060 Casement Window Large Missile Impact", sheets 01 through 13 of 13, dated 01/14/13 with revision "C" dated 07/15/13, prepared by manufacture, signed and sealed by Luis R. Lomas, P. E.

**B. TESTS**

1. Test reports on:
  - 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94along with marked-up drawings and installation diagram of a thermally broken Aluminum casement window, prepared by National Certified Testing Laboratories, Inc., Test Reports No.'s **NCTL-210-3832-2A** and **NCTL-210-3832-3A**, dated 01/10/13, signed and sealed by Gerard J. Ferrara, P. E.

**C. CALCULATIONS**

1. Anchor calculations and structural analysis, complying with **FBC-2010**, dated 04/19/13, prepared, signed and sealed by Luis R. Lomas, P. E.
2. **Glazing complies with ASTM E1300-04**

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **13-0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 04/11/13, expiring on 12/11/16.
2. Notice of Acceptance No. **11-0624.02** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.
3. Test Report No. **ATI-61261.01-106-18**, prepared by Architectural Testing, Inc., dated 12/13/05, revised dated 01/04/06, issued to Technoform, for their I-Stut Thermal Barrier plastic per **ASTM D635-03** "Standard Test Method for Rate of Burning and/ or Extent and Time of Burning of Plastics in a Horizontal Position" and **ASTM D2843-99** "Standard Test Method for the Density of Smoke from the Burning Decomposition of Plastics", signed and sealed by Allen N. Reeves, P. E.



Jaime D. Gascon, P. E.  
Product Control Section Supervisor  
NOA No. 13-0129.25  
Expiration Date: August 08, 2018  
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**E. MATERIAL CERTIFICATIONS (CONTINUED)**


4. Test Report No. **ETC-08-1043-20974.0**, prepared by ETC Laboratories, Inc., dated 07/01/08, issued to Technoform, for their I-Stut Thermal Barrier Plastic PA 66 GF25 per **ASTM D1929-96** (2001) "Standard Test Method for Ignition Properties of Plastics", signed by Gurijinder Dliami, Dir.
5. Test report No. **ETC-07-1043-19094.0**, prepared by ETC Laboratories, Inc., dated 02/18/08, issued to Technoform Bautech N.A., Inc., for their 18.6mm Flat I-Stut Thermal Barrier/ **ETC07021** per **ASTM D638-03** "*4500 exposed Xenon Arch*" & tensile strength **ASTM D638-03** "*Tensile Strength*" and per **ASTMD G26-96** "*Practice for Operating Light-Exposure Apparatus (Xenon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials*", dated 03/06/08, signed and sealed by Joseph Labora Doldan, P. E.
6. Technoform Bautech N.A., Inc. Part No. **968600** 18.6mm Flat I-Stut Thermal Barrier Plastic PA 66 GF25 complying with **ASTM D3418-03** "*Standard Test Method for Transition Temperatures and Enthalpies of Fusion and Crystallization of Polymers by Differential Scanning Calorimetric*", **ASTM D792-03** "*Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement*", **ASTM D2240-05** "*Standard Test Method for Rubber Property—Durometer Hardness*" and **ASTM D638-03** "*4500 exposed Xenon Arch & Tensile Strength*".

**F. STATEMENTS**

1. Statement letter of no financial interest, conformance and complying with **FBC-2010**, dated 01/17/13, issued, signed and sealed by Luis R. Lomas, P. E.
2. Laboratory compliance letter for Test Reports No.'s **NCTL-210-3832-2A** and **NCTL-210-3832-3A**, issued by National Certified Testing Laboratories, Inc., dated 01/10/13, signed and sealed by Gerard J. Ferrara, P. E.

**G. OTHERS**

1. None.

  
\_\_\_\_\_  
Jaime D. Gascon, P. E.  
Product Control Section Supervisor  
NOA No. 13-0129.25  
Expiration Date: August 08, 2018  
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NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ.
2. WOOD FRAMING, 2X WOOD BUCK, 1X WOOD BUCK AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD. 2X WOOD BUCK TO BE PROPERLY SECURED.
3. 1X PT WOOD BUCK OVER MASONRY/CONCRETE IS OPTIONAL. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD. 1X PT WOOD BUCK TO BE PROPERLY SECURED.
4. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
5. FRAME MATERIAL: ALUMINUM 6063-T6.
6. UNITS MUST BE GLAZED PER ASTM E1300-04, SEE SHEET 4 FOR GLASS OPTIONS.
7. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
8. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
9. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #14 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 7/16" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
10. FOR ANCHORING INTO MASONRY/CONCRETE USE 1/4" ITW BUILDEX TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
11. FOR ANCHORING INTO METAL STRUCTURE USE #14 SMS OR SELF DRILLING GRADE 5 SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
12. ALL FASTENERS TO BE CORROSION RESISTANT.
13. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
  - A. WOOD - MINIMUM SPECIFIC GRAVITY OF G=0.42
  - B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
  - C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
  - D. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 1/8" THICK MINIMUM

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED CHARTS & HARDWARE LAYOUTS	04/12/13	R.L.
B	REVISED PER MD COMMENTS	05/30/13	R.L.
C	REVISED NOTES AND B.O.M.	07/15/13	R.L.

CORNER CONSTRUCTION:

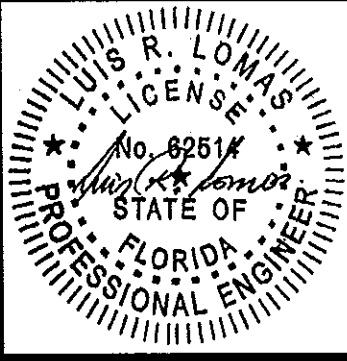
1. FRAME CORNERS ARE ASSEMBLED USING TWO CORNER KEYS: EXTERIOR KEY (ITEM 25) AND INTERIOR KEY (ITEM 26) SEE SHEET 6
2. SASH CORNERS ARE ASSEMBLED USING TWO CORNER KEYS: EXTERIOR KEY (ITEM 25) AND INTERIOR KEY (ITEM 24) SEE SHEET 6

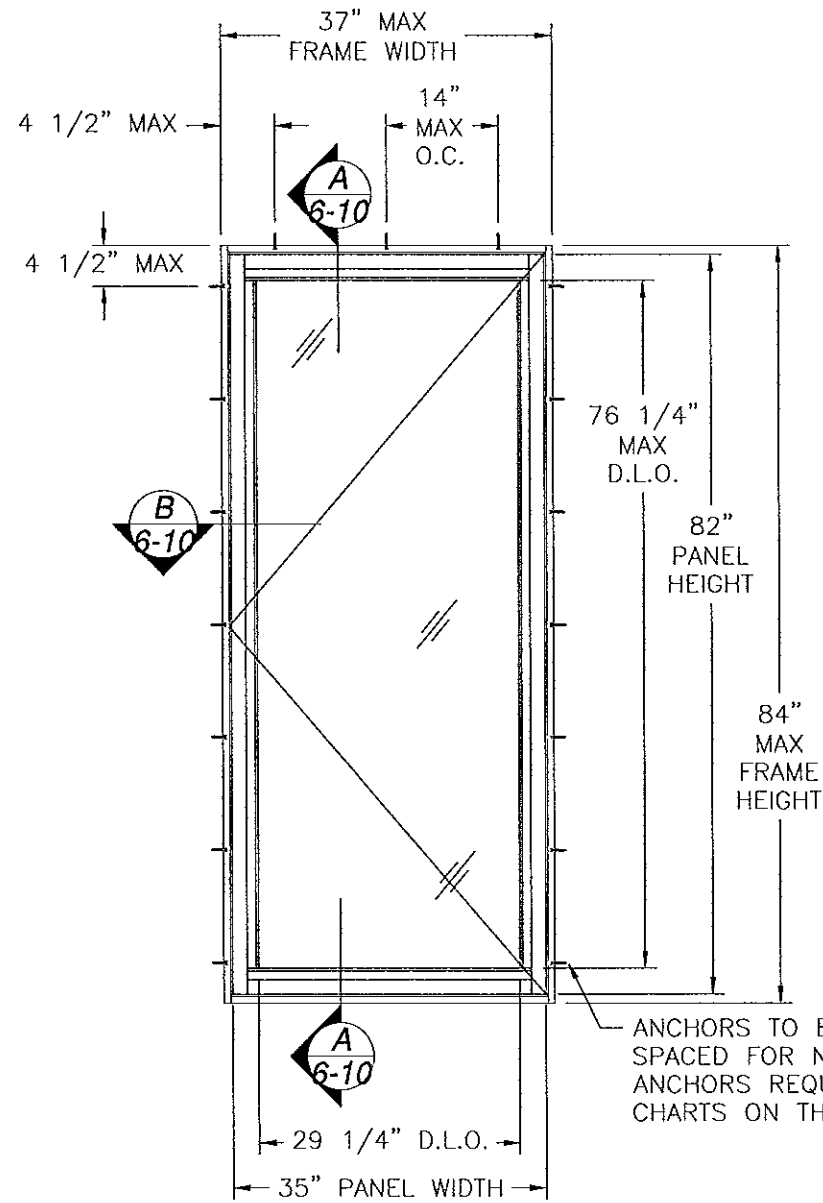
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5	GLAZING DETAILS AND B.O.M.
6	CROSS SECTIONS
7 - 10	INSTALLATION DETAILS
11	COMPONENTS
12 - 13	HARDWARE LAYOUTS

Approved as complying with the  
Florida Building Code  
Date 08/08/2013  
NOAH 13-0129.25  
Miami Made Product Control  
By [Signature]

<b>WinDoor</b> INCORPORATED		7500 AMSTERDAM DRIVE ORLANDO, FL 32832 Phone: 407.481.8400 Fax: 407.481.0505 www.windoorinc.com	
9060 CASEMENT WINDOW LARGE MISSILE IMPACT NOTES			
DRAWN: V.L.		DWG NO. 08-01902	REV C
SCALE NTS	DATE 01/14/13	SHEET 1 OF 13	

SIGNED: 07/15/2013





9060 CASEMENT WINDOW SINGLE  
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
+100.0/-140.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ  
WITH GLAZING A AND B (SEE CHARTS 1 & 2)

DESIGN PRESSURE RATING	IMPACT RATING
±90.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ  
WITH GLAZING C AND D (SEE CHARTS 3 & 4)

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED CHARTS & HARDWARE LAYOUTS	04/12/13	R.L.
B	REVISED PER MD COMMENTS	05/30/13	R.L.
C	REVISED NOTES AND B.O.M.	07/15/13	R.L.

CHART #1

Series 9060 Casement Single Window  
with SENTRYGLAS interlayer (Glazing A and B)

Maximum design pressure capacity chart (psf)

Frame Height (in)	Frame width (in)							
	24.0		30.0		36.0		37.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
30.0	100.0	150.0	100.0	150.0	100.0	150.0	100.0	150.0
36.0	100.0	150.0	100.0	150.0	100.0	150.0	100.0	150.0
42.0	100.0	150.0	100.0	150.0	100.0	150.0	100.0	150.0
48.0	100.0	150.0	100.0	150.0	100.0	150.0	100.0	150.0
54.0	100.0	150.0	100.0	150.0	100.0	150.0	100.0	150.0
60.0	100.0	150.0	100.0	150.0	100.0	150.0	100.0	150.0
66.0	100.0	150.0	100.0	150.0	100.0	150.0	100.0	150.0
72.0	100.0	150.0	100.0	150.0	100.0	149.6	100.0	146.9
78.0	100.0	150.0	100.0	150.0	100.0	145.9	100.0	143.1
84.0	100.0	150.0	100.0	150.0	100.0	142.8	100.0	140.0

CHART #2

Number of anchors locations required for single units glazed with SENTRYGLAS Interlayer (Glazing A and B)

Frame Height (in)	Frame width (in)							
	24.0		30.0		36.0		37.0	
	Head	Jamb	Head	Jamb	Head	Jamb	Head	Jamb
30.0	2	3	3	3	3	4	3	4
36.0	2	3	3	4	3	4	3	4
42.0	2	4	3	5	3	5	3	5
48.0	2	5	3	5	3	6	3	6
54.0	2	5	3	6	3	7	3	7
60.0	2	6	3	7	3	8	3	8
66.0	2	6	3	8	3	9	3	9
72.0	2	7	3	8	3	10	3	10
78.0	2	7	3	9	3	10	3	10
84.0	2	8	3	10	3	11	3	11

CHART #3

Series 9060 Casement Single Window  
with PVB interlayer (Glazing C and D)

Maximum design pressure capacity chart (psf)

Frame Height (in)	Frame width (in)							
	24.0		30.0		36.0		37.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
30.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
42.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
48.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
54.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
60.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
66.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
72.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
78.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
84.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0

CHART #4

Number of anchors locations required for single units glazed with PVB Interlayer (Glazing C and D)

Frame Height (in)	Frame width (in)							
	24.0		30.0		36.0		37.0	
	Head	Jamb	Head	Jamb	Head	Jamb	Head	Jamb
30.0	2	2	3	2	3	2	3	2
36.0	2	3	3	3	3	3	3	3
42.0	2	3	3	3	3	3	3	3
48.0	2	3	3	3	3	4	3	4
54.0	2	4	3	4	3	4	3	4
60.0	2	4	3	4	3	5	3	5
66.0	2	4	3	5	3	5	3	6
72.0	2	5	3	5	3	6	3	6
78.0	2	5	3	6	3	6	3	7
84.0	2	5	3	6	3	7	3	7

Approved as complying with the  
Florida Building Code  
Date 08/08/2013  
NOAH 13-0119.23  
Miami Date Product Control

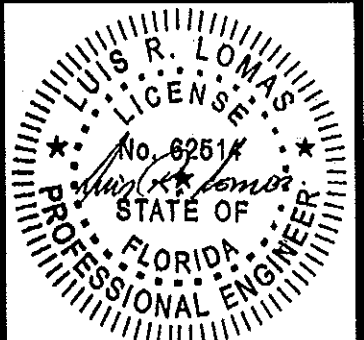
WinDoor  
INCORPORATED

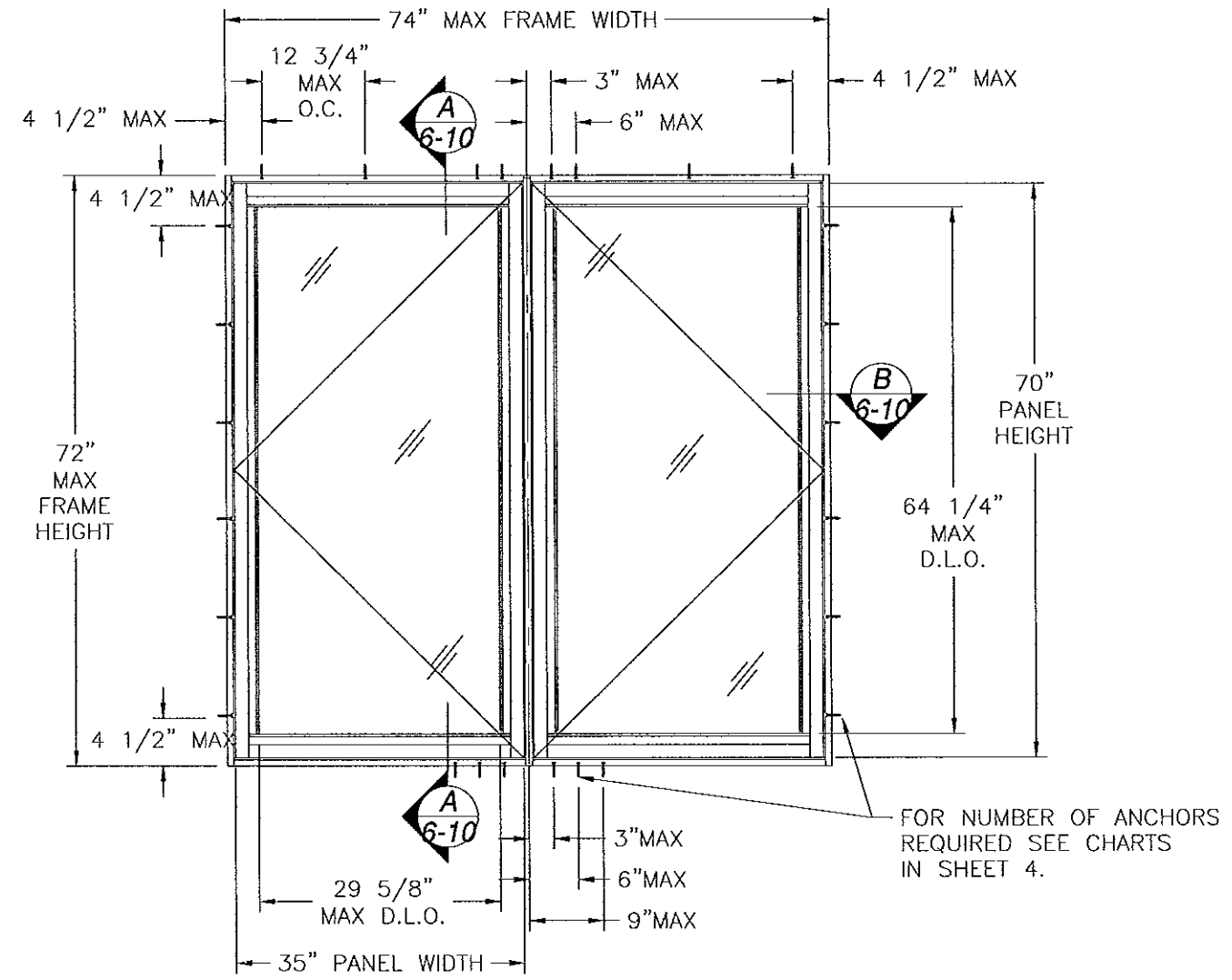
7500 AMSTERDAM DRIVE  
ORLANDO, FL 32832  
Phone: 407.481.8400  
Fax: 407.481.0505  
www.windoorinc.com

9060 CASEMENT WINDOW  
LARGE MISSILE IMPACT  
ELEVATIONS

DRAWN: V.L.	DWG NO. 08-01902	REV C
SCALE NTS	DATE 01/14/13	SHEET 2 OF 13

SIGNED: 07/15/2013





9060 CASEMENT WINDOW TWIN  
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
+90.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ  
WITH GLAZING A AND B (SEE CHARTS 5 AND 6)

DESIGN PRESSURE RATING	IMPACT RATING
±90.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ  
WITH GLAZING C AND D (SEE CHARTS 7 AND 8)

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED CHARTS & HARDWARE LAYOUTS	04/12/13	R.L.
B	REVISED PER MD COMMENTS	05/30/13	R.L.
C	REVISED NOTES AND B.O.M.	07/15/13	R.L.

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Date 08/08/2013  
By NOAH 13-0129.25  
Miami Dade Product Control

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Phone: 407.481.8400  
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9060 CASEMENT WINDOW  
LARGE MISSILE IMPACT  
ELEVATIONS

SIGNED: 07/15/2013

DRAWN: V.L.	DWG NO. 08-01902	REV C
SCALE NTS	DATE 01/14/13	SHEET 3 OF 13

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED CHARTS & HARDWARE LAYOUTS	04/12/13	R.L.
B	REVISED PER MD COMMENTS	05/30/13	R.L.
C	REVISED NOTES AND B.O.M.	07/15/13	R.L.

CHART #5

Series 9060 Twin Window with SENTRYGLAS Interlayer (Glazing A and B)											
Maximum design pressure capacity chart (psf)											
Frame Height (in)	Frame Width (in)										
	48.0		56.0		64.0		72.0		74.0		
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	
30.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0	
36.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0	
42.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0	
48.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0	
54.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0	
60.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	117.8	100.0	116.0	
66.0	100.0	120.0	100.0	120.0	100.0	111.3	100.0	103.1	100.0	101.4	
72.0	100.0	120.0	100.0	109.7	99.4	99.4	91.6	91.6	90.0	90.0	

CHART #6

Series 9060 Casement Twin Window with SENTRYGLAS Interlayer (Glazing A and B)																					
Number of anchor locations required																					
Frame Height (in)	Frame width (In)																				
	48.00				56.00				64.00				72.00				74.00				
	Head	Jamb	Mull head	Mull sill	Head	Jamb	Mull head	Mull sill	Head	Jamb	Mull head	Mull sill	Head	Jamb	Mull head	Mull sill	Head	Jamb	Mull head	Mull sill	
30.00	2	3	2	3	2	3	2	3	2	3	2	4	3	3	2	4	3	3	2	4	
36.00	2	3	2	3	2	3	2	4	2	3	3	4	3	4	3	5	3	4	3	5	
42.00	2	3	3	4	2	4	3	4	2	4	3	5	3	4	3	5	3	4	3	5	
48.00	2	4	3	4	2	4	4	5	2	5	4	5	3	5	4	6	3	5	4	6	
54.00	2	4	4	5	2	5	4	5	2	5	4	6	3	6	5	7	3	6	5	7	
60.00	2	5	4	5	2	5	5	6	2	6	5	7	3	6	5	7	3	6	5	7	
66.00	2	5	5	6	2	6	5	6	2	6	5	7	2	6	5	7	2	6	5	7	
72.00	2	6	5	6	2	6	5	6	2	6	5	7	2	6	5	7	2	6	5	7	

CHART #7

Series 9060 Twin Window with PVB Interlayer (Glazing C and D)											
Maximum design pressure capacity chart (psf)											
Frame Height (in)	Frame Width (In)										
	48.0		56.0		64.0		72.0		74.0		
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	
30.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
36.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
42.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
48.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
54.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
60.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
66.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
72.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	

CHART #8

Series 9060 Casement Twin Window with PVB Interlayer (Glazing C and D)																				
Number of anchor locations required																				
Frame Height (In)	Frame width (In)																			
	48.00				56.00				64.00				72.00				74.00			
	Head	Jamb	Mull head	Mull sill	Head	Jamb	Mull head	Mull sill	Head	Jamb	Mull head	Mull sill	Head	Jamb	Mull head	Mull sill	Head	Jamb	Mull head	Mull sill
30.00	2	3	2	2	2	2	2	3	2	2	2	3	2	2	2	3	2	2	2	3
36.00	2	3	2	3	2	2	2	3	2	3	2	3	2	3	2	4	2	3	2	4
42.00	2	3	2	3	2	3	2	3	2	3	2	4	2	3	3	4	2	3	3	4
48.00	2	3	3	3	2	3	3	4	2	4	3	4	2	4	3	5	2	4	3	5
54.00	2	3	3	4	2	4	3	4	2	4	3	5	2	4	4	5	2	4	4	5
60.00	2	4	3	4	2	4	4	5	2	4	4	5	2	5	4	6	2	5	4	6
66.00	2	4	4	4	2	4	4	5	2	5	4	6	2	5	5	6	2	6	5	6
72.00	2	4	4	5	2	5	4	5	2	5	5	6	2	6	5	7	2	6	5	7

SIGNED: 07/15/2013

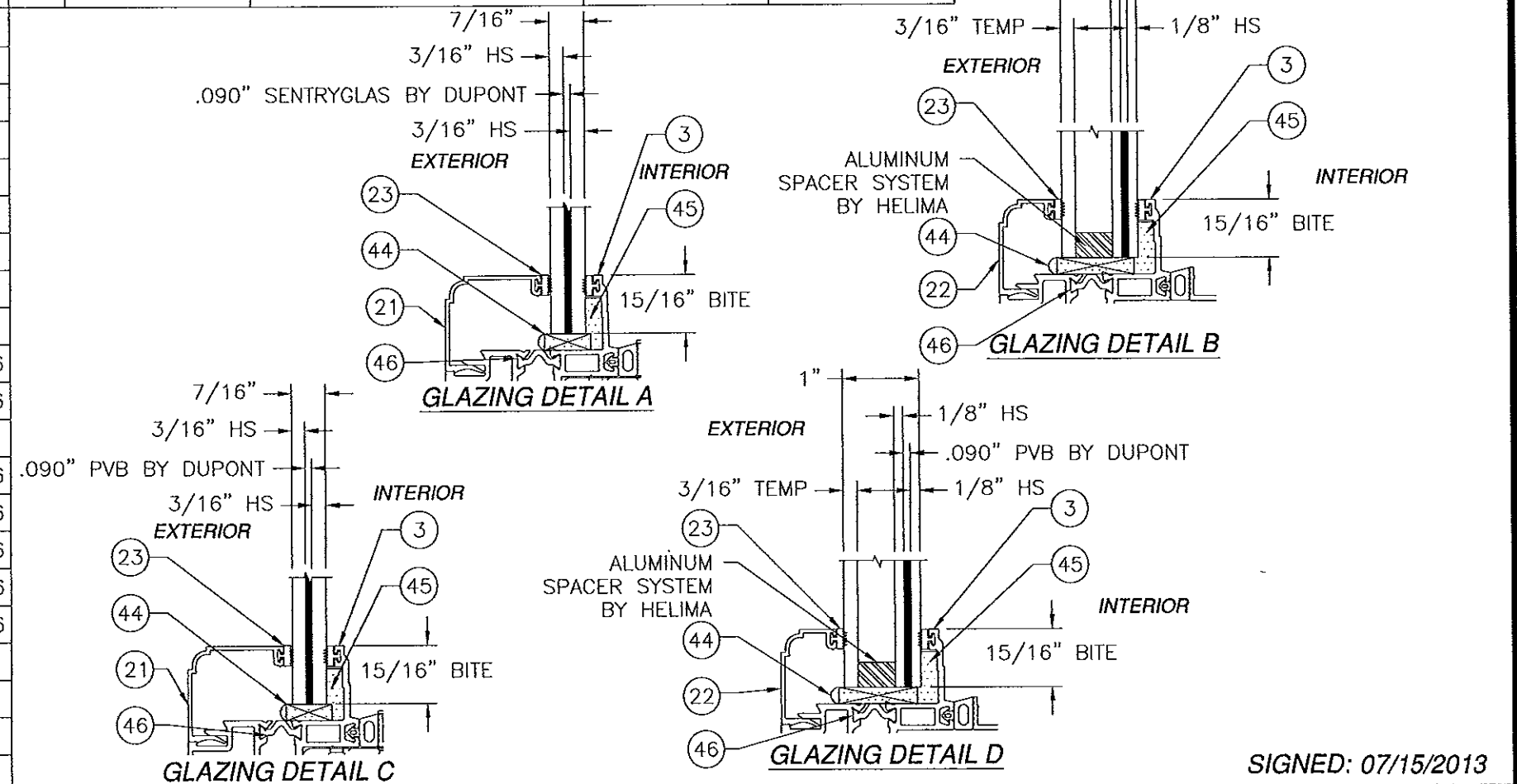
<p>Approved as complying with the Florida Building Code Date <u>08/08/2013</u> NOAH <u>13-0129.25</u> Miami Dade Product Control by <u>[Signature]</u></p>	<b>WinDoor</b> INCORPORATED		7500 AMSTERDAM DRIVE ORLANDO, FL 32832 Phone: 407.481.8400 Fax: 407.481.0505 www.windoorinc.com	
	9060 CASEMENT WINDOW LARGE MISSILE IMPACT ELEVATIONS			
	DRAWN: V.L.	DWG NO. 08-01902	REV C	
	SCALE NTS	DATE 01/14/13	SHEET 4 OF 13	

LUIS R. LOMAS  
No. 62514  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER

PARTS LIST				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	9060A02	FLUSH FRAME ASSEMBLY	KEYMARK	ALUMINUM 6063-T6
2	9060A04	FLANGE FRAME ASSEMBLY	KEYMARK	ALUMINUM 6063-T6
3	9060A01	SASH ASSEMBLY	KEYMARK	ALUMINUM 6063-T6
4	9060A03	COMMON POST	KEYMARK	ALUMINUM 6063-T6
5	S51989	HORIZONTAL SCREEN ADAPTER	KEYMARK	ALUMINUM 6063-T6
6	S51990	VERTICAL SCREEN ADAPTER	KEYMARK	ALUMINUM 6063-T6
7	H50/0-55-0521	ENCORE DUAL ARM OPERATOR	TRUTH	
8	H50/0-55-0522P	ENCORE DUAL ARM OPERATOR	TRUTH	
9	12510.00.0520	STUD BRACKET LEFT HAND HINGE	TRUTH	
10	12511.00.0520	STUD BRACKET RIGHT HAND HINGE	TRUTH	
11	64.59.00.201	14.10 WASHABILITY HINGE	TRUTH	
12	24.30.XX.004	LOCK ASSEMBLY	TRUTH	
13	23050.00.0500	LOCK SUPPORT PLATE	TRUTH	
14	9000LH-HD	KEEPER LEFT HAND - HD	SELJAN	
15	9000RH-HD	KEEPER RIGHT HAND - HD	SELJAN	
16	11914	TIE BAR 6 POINT	TRUTH	
17	11914	TIE BAR 5 POINT	TRUTH	
18	12075P001	TIE BAR GUIDE	TRUTH	
19	900130	FRAME & SASH SNUBBER	ROTO	
20	H1579-SS-0520P	OPERATOR TRACK & SLIDER ASSY	TRUTH	
21	S46329	GLASS STOP 7/16" - 9/16"	KEYMARK	ALUMINUM 6063-T6
22	S46084	GLASS STOP 1"	KEYMARK	ALUMINUM 6063-T6
23	TP1051	#6 GLAZING VINYL	TEAM PLASTICS	
24	FS07438	INTERIOR SASH CORNER KEY	KEYMARK	ALUMINUM 6063-T6
25	FS07440	SASH & FRAME CORNER KEY	KEYMARK	ALUMINUM 6063-T6
26	FH07439	EXTERIOR FRAME CORNER KEY	KEYMARK	ALUMINUM 6063-T6
27	FH07574	SCREEN FRAME	KEYMARK	ALUMINUM 6063-T6
28	FH05838	SCREEN FLANGE FRAME	KEYMARK	ALUMINUM 6063-T6
29	S10010-BL-2200R	SCREEN SPLINE		
30	SBV-XX-0600Z	SCREEN CLOTH	ULTRAFAB	
31	QEZ 376	Q-LON FOAM FLAP SEAL	SCHLEGEL	
32	54076	WEATHERSTRIP	LAUREN MFG.	EPDM SPONGE
33	54578	WEATHERSTRIP	LAUREN MFG.	EPDM RUBBER
34	121998	.187"X.200" FIN SEAL	ULTRA FAB	
35		#8 X 3/8" PPH		
36		#8 X 1/2" PFH		
37		#8 X 1/2" PPH		
38		#8 X 1 1/4" PPH		
39		#10 X 1/2" PPH		
40		LOCK HANDLE		

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED CHARTS & HARDWARE LAYOUTS	04/12/13	R.L.
B	REVISED PER MD COMMENTS	05/30/13	R.L.
C	REVISED NOTES AND B.O.M.	07/15/13	R.L.

PARTS LIST				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
41		#10 X 3/4" & #10 X 1 1/4" PFH		
42		#10 X 3" PPH SELF-DRILLING		
43		HEAD & SILL INNER-SCREWS		
44	01-100-7755-002	NEOPRENE GLASS SHIMS	FRANK LOWE	DUROMETER 80
45	SIKAFLEX 552	POLYURETHANE	SIKA	SEALANT
46	968600	THERMAL STRUT	TECHNOFORM	POLYAMIDE



SIGNED: 07/15/2013

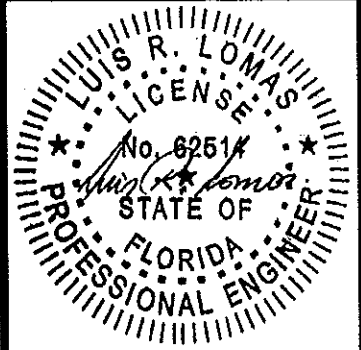
Approved as complying with the  
Florida Building Code  
Date 08/08/2013  
NOAH 130129.25  
Miami Dade Product Control  
By [Signature]

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INCORPORATED

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Phone: 407.481.8400  
Fax: 407.481.0505  
www.windoorinc.com

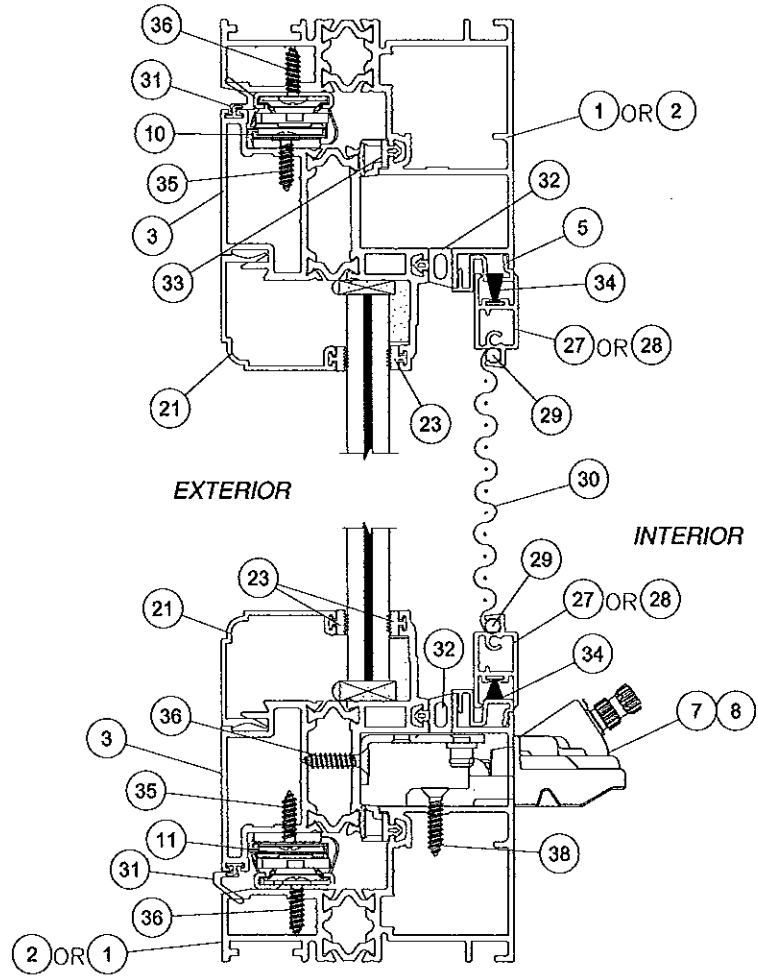
9060 CASEMENT WINDOW  
LARGE MISSILE IMPACT  
GLAZING DETAILS AND B.O.M.

DRAWN: V.L.	DWG NO. 08-01902	REV C
SCALE NTS	DATE 01/14/13	SHEET 5 OF 13

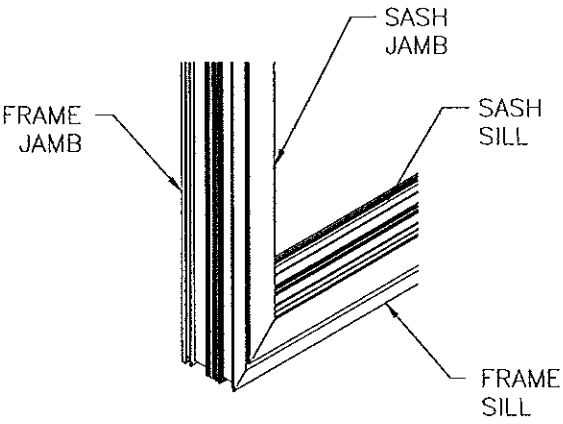




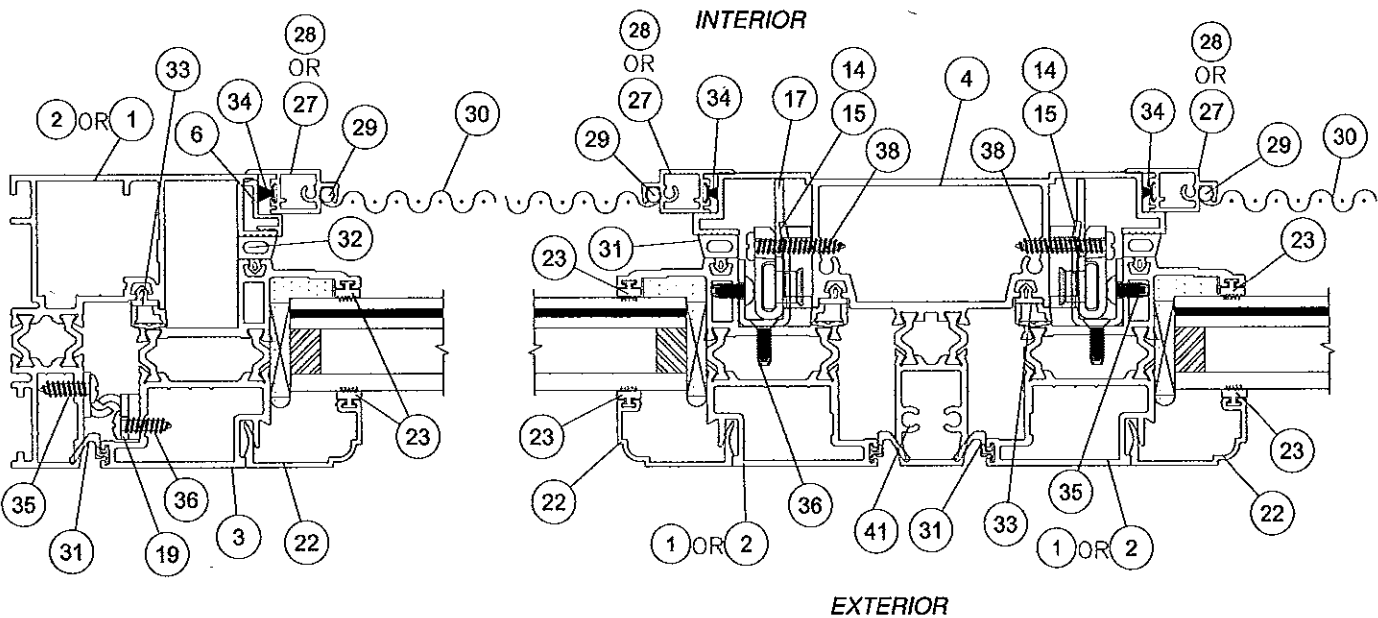
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REV	DESCRIPTION	DATE	APPROVED
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B	REVISED PER MD COMMENTS	05/30/13	R.L.
C	REVISED NOTES AND B.O.M.	07/15/13	R.L.



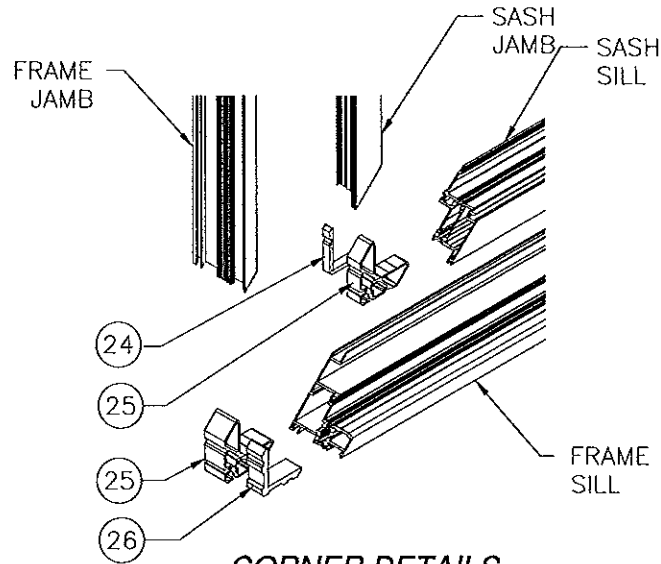
**A**  
6 VERTICAL SECTION



CORNER ASSEMBLY



**B**  
6 HORIZONTAL SECTION



CORNER DETAILS

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Florida Building Code  
Date 08/14/2013  
NOA# 13-0129.25  
Miami-Dade Product Control  
By [Signature]

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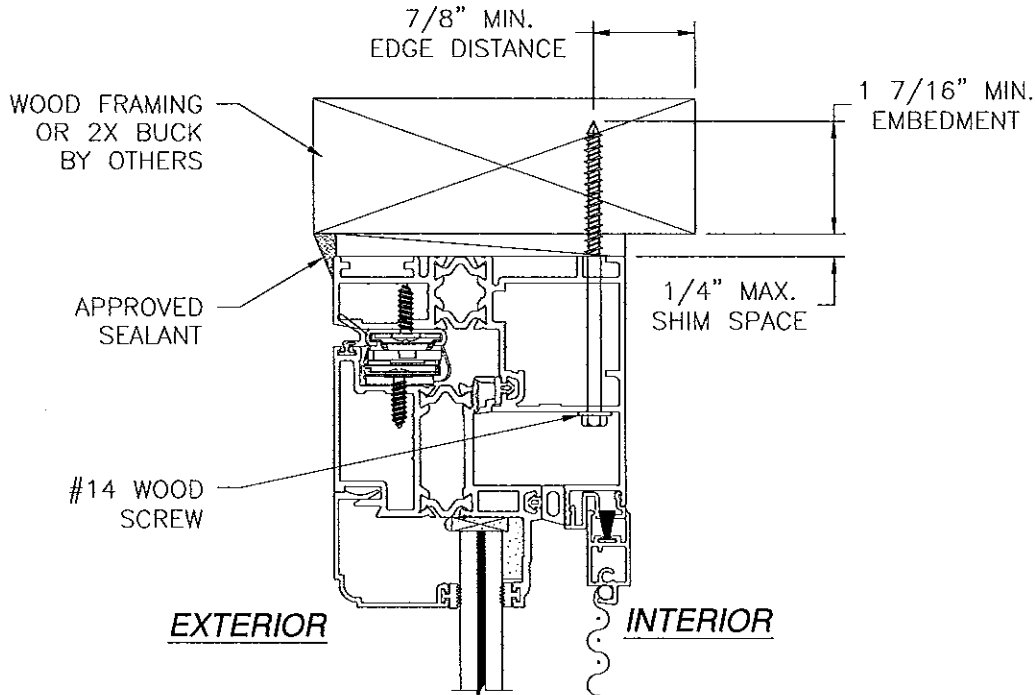
7500 AMSTERDAM DRIVE  
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www.windoorinc.com

9060 CASEMENT WINDOW  
LARGE MISSILE IMPACT  
CROSS SECTIONS

DRAWN: V.L.	DWG NO. 08-01902	REV C
SCALE NTS	DATE 01/14/13	SHEET 6 OF 13

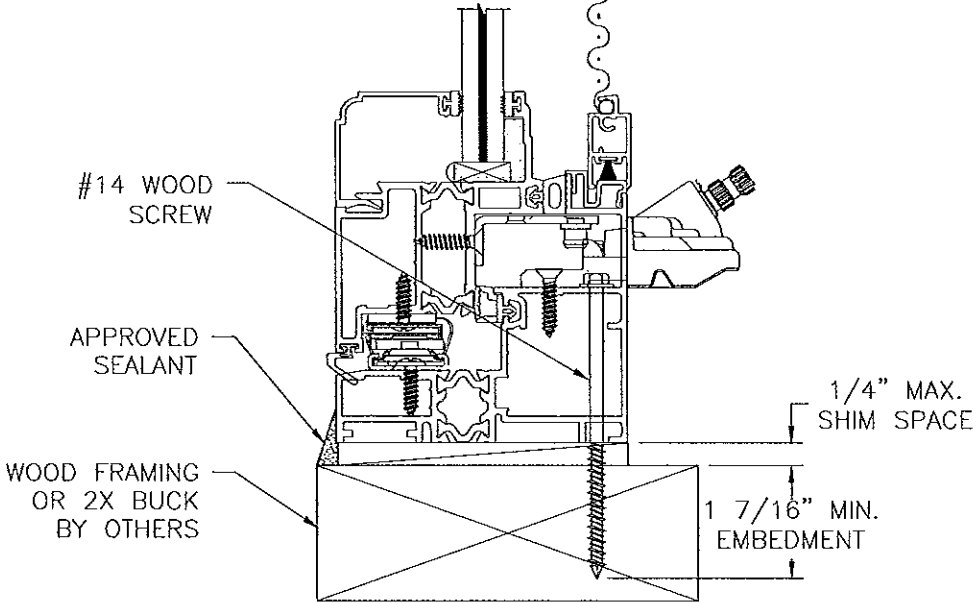
SIGNED: 07/15/2013

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REV	DESCRIPTION	DATE	APPROVED
A	ADDED CHARTS & HARDWARE LAYOUTS	04/12/13	R.L.
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EXTERIOR

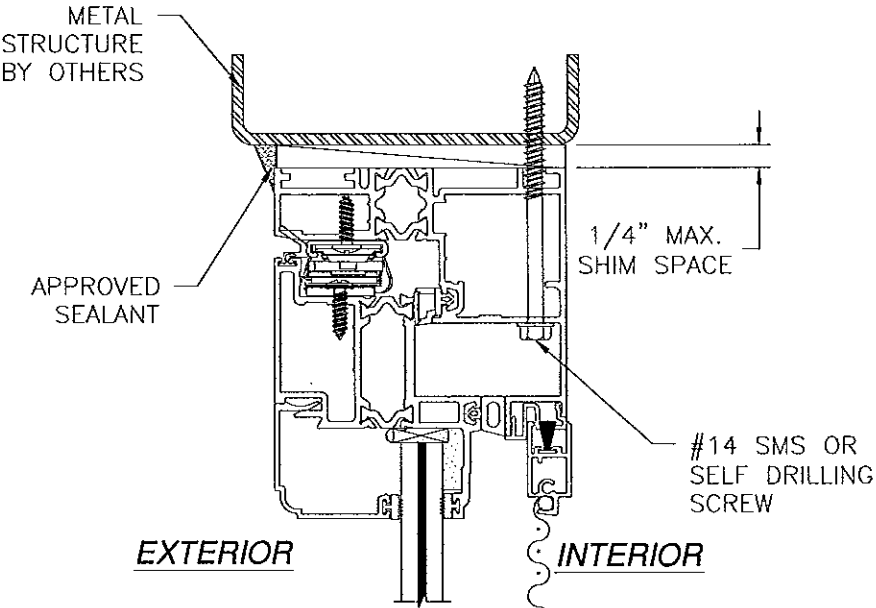
INTERIOR



A  
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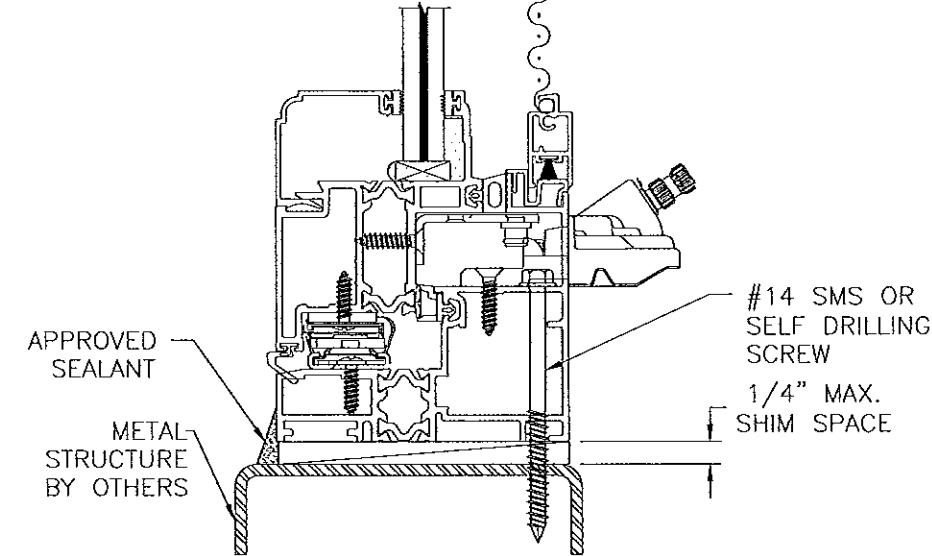
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WOOD FRAMING OR 2X BUCK INSTALLATION  
REFER TO NOTES 2,3,12 AND 13 SHEET 1

- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
  2. SEALANT JOINT BY OTHERS TO BE IN ACCORDANCE WITH ASTM E2112.



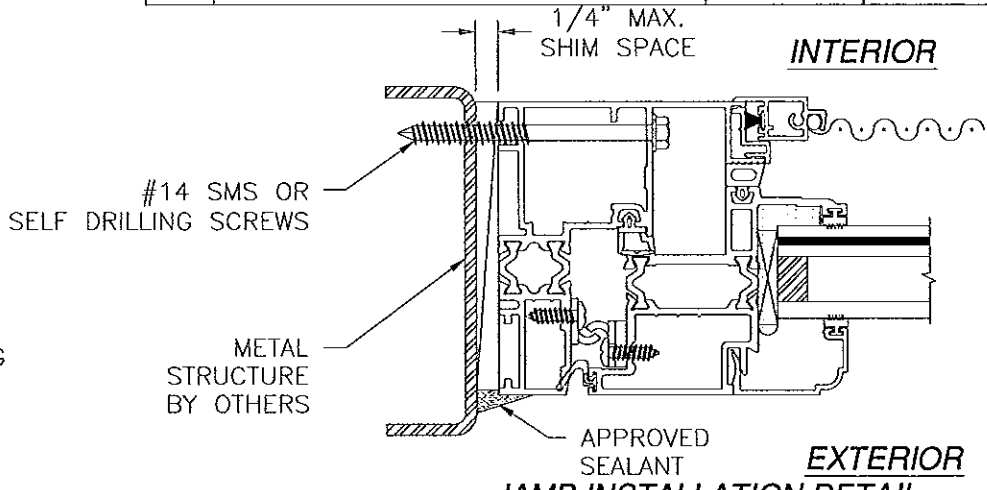
EXTERIOR

INTERIOR



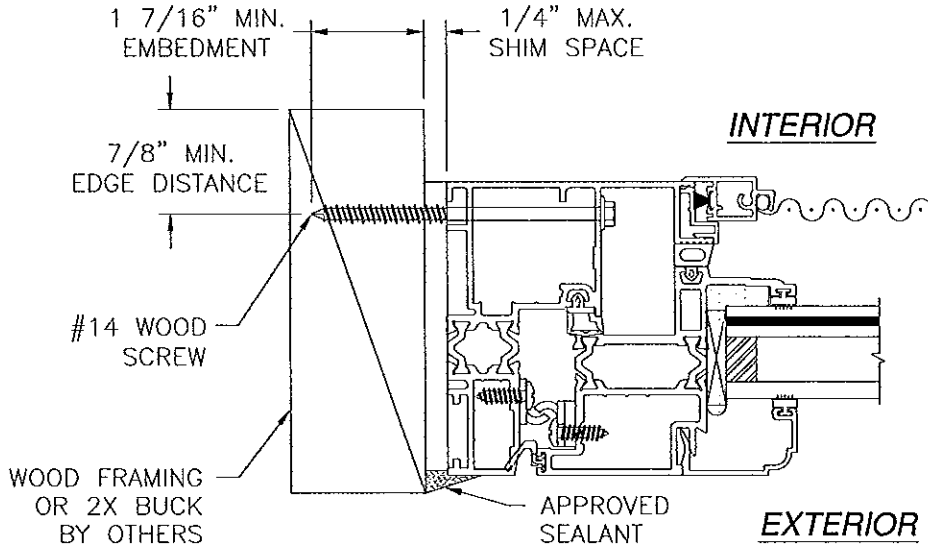
A  
7

VERTICAL CROSS SECTION  
METAL STRUCTURE INSTALLATION  
REFER TO NOTES 2,3,12 AND 13 SHEET 1



B  
7

JAMB INSTALLATION DETAIL  
METAL STRUCTURE INSTALLATION  
REFER TO NOTES 2,3,12 AND 13 SHEET 1



B  
7

JAMB INSTALLATION DETAIL  
WOOD FRAMING OR 2X BUCK INSTALLATION  
REFER TO NOTES 2,3,12 AND 13 SHEET 1

SIGNED: 07/15/2013

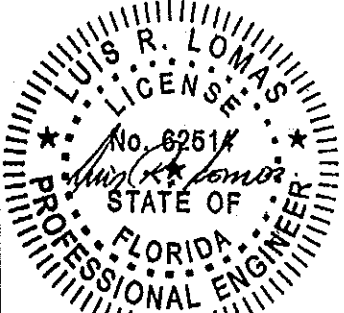
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Date 08/09/2013  
NOA# 13-0129.25  
Miami-Dade Product Control  
By [Signature]

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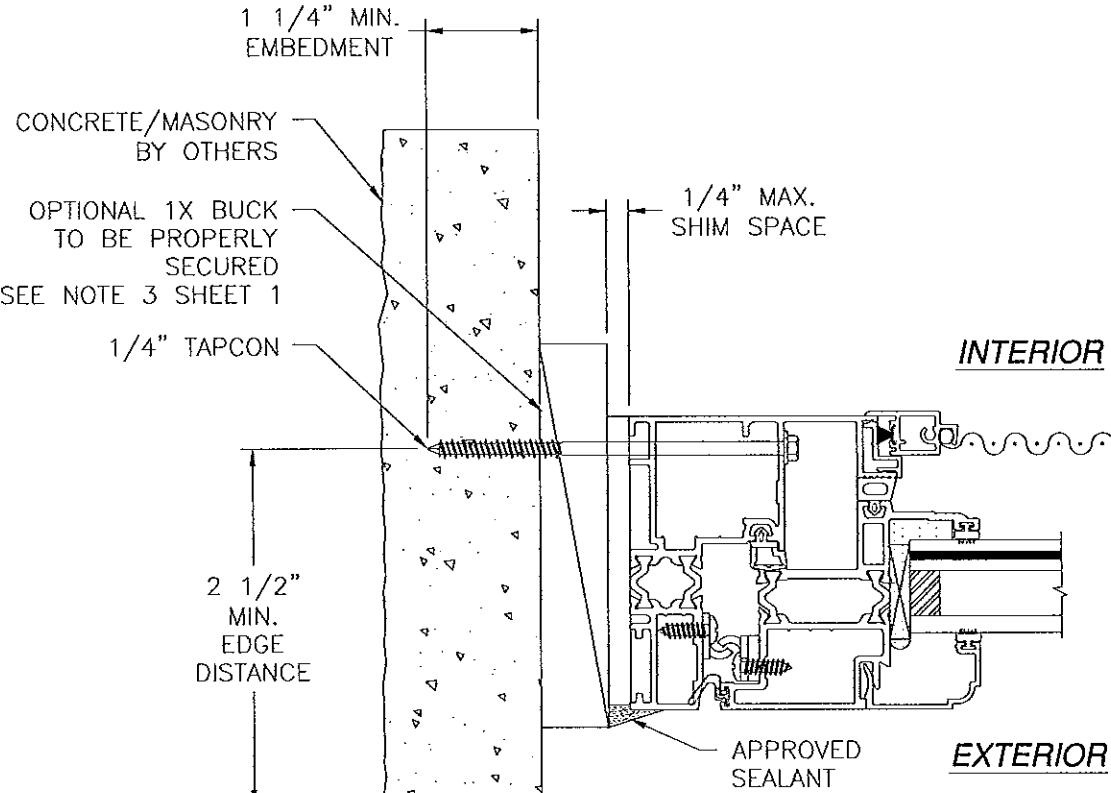
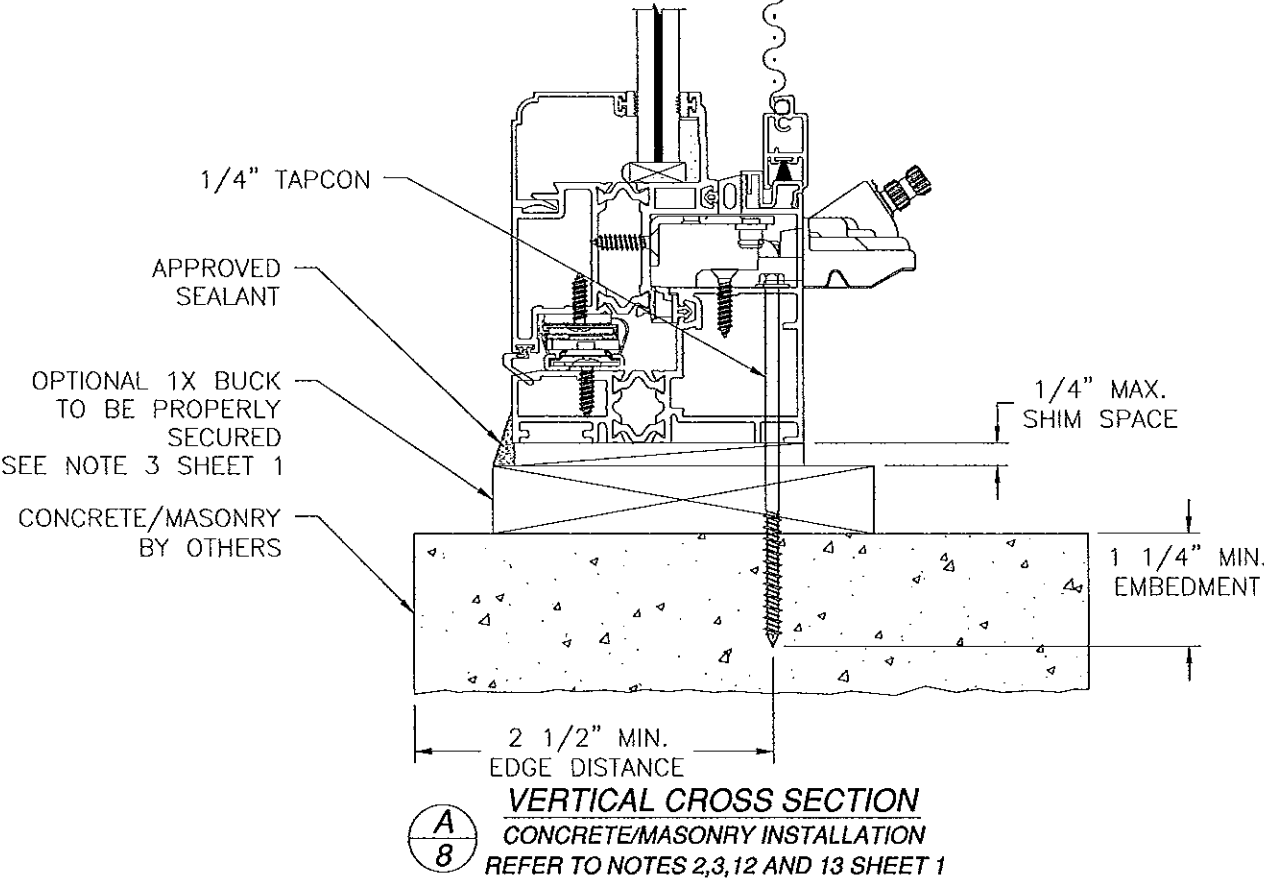
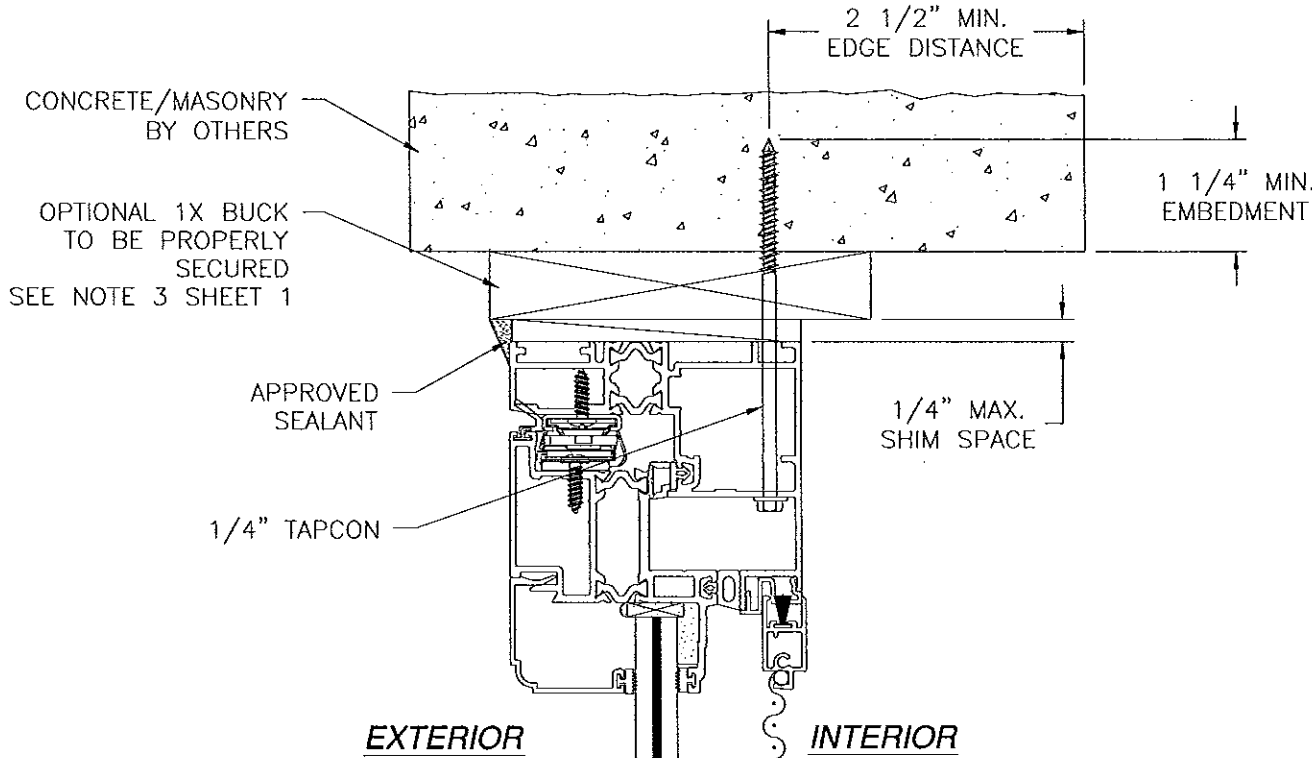
7500 AMSTERDAM DRIVE  
ORLANDO, FL 32832  
Phone: 407.481.8400  
Fax: 407.481.0505  
www.windoorinc.com

9060 CASEMENT WINDOW  
LARGE MISSILE IMPACT  
FLUSH INSTALLATION DETAILS

DRAWN: V.L.	DWG NO. 08-01902	REV C
SCALE NTS	DATE 01/14/13	SHEET 7 OF 13



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED CHARTS & HARDWARE LAYOUTS	04/12/13	R.L.
B	REVISED PER MD COMMENTS	05/30/13	R.L.
C	REVISED NOTES AND B.O.M.	07/15/13	R.L.



**JAMB INSTALLATION DETAIL**  
**CONCRETE/MASONRY INSTALLATION**  
 REFER TO NOTES 2,3,12 AND 13 SHEET 1

- NOTES:**
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
  2. SEALANT JOINT BY OTHERS TO BE IN ACCORDANCE WITH ASTM E2112.

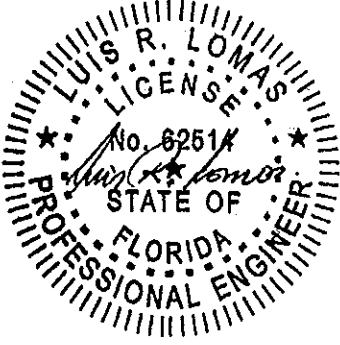
SIGNED: 07/15/2013

Approved as complying with the  
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 Date 08/08/2013  
 NOAH 13-0129.25  
 Miami Dade Product Control  
 By [Signature]

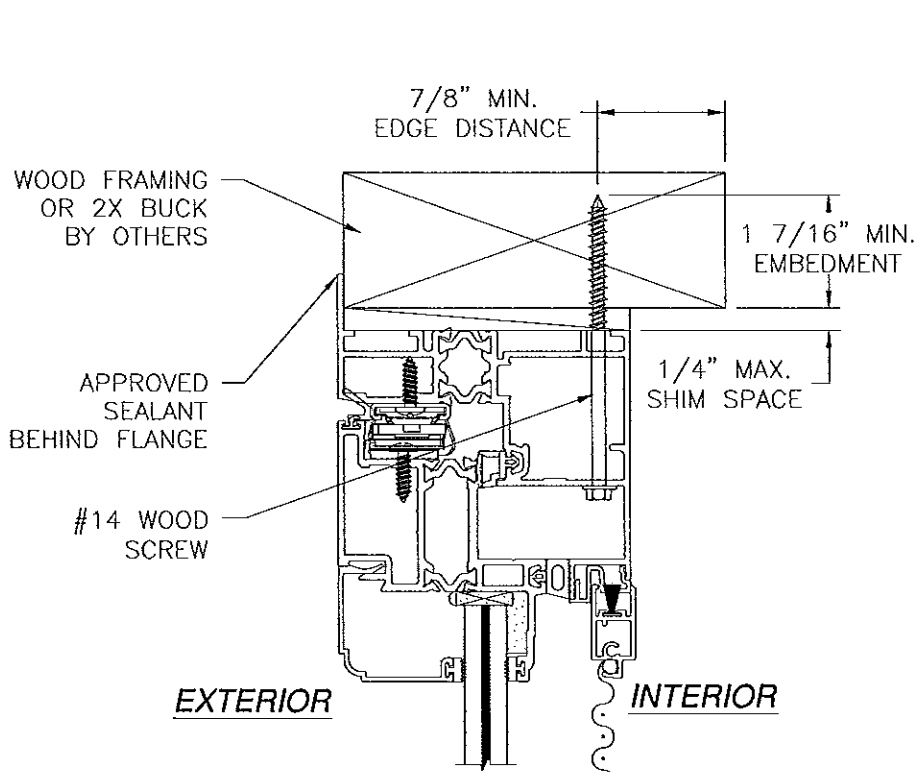
**WinDoor**  
 INCORPORATED  
 7500 AMSTERDAM DRIVE  
 ORLANDO, FL 32832  
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9060 CASEMENT WINDOW  
 LARGE MISSILE IMPACT  
 FLUSH INSTALLATION DETAILS

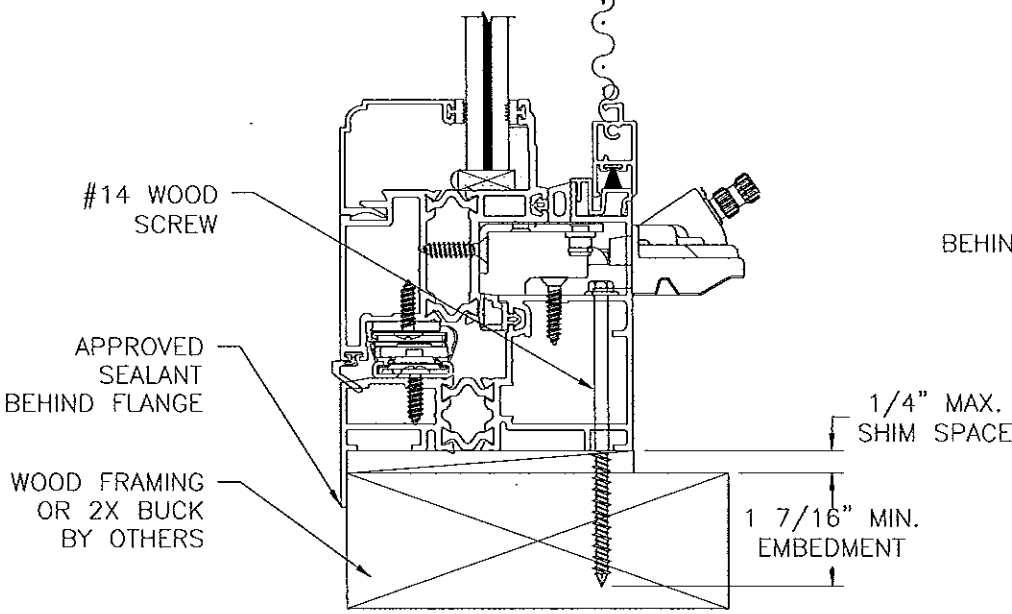
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SCALE NTS	DATE 01/14/13	SHEET 8 OF 13



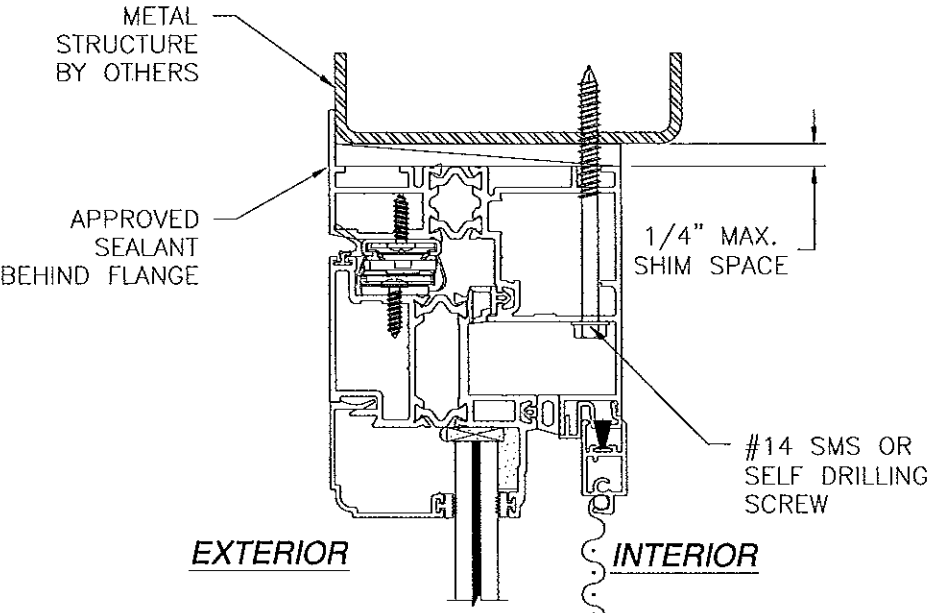
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED CHARTS & HARDWARE LAYOUTS	04/12/13	R.L.
B	REVISED PER MD COMMENTS	05/30/13	R.L.
C	REVISED NOTES AND B.O.M.	07/15/13	R.L.



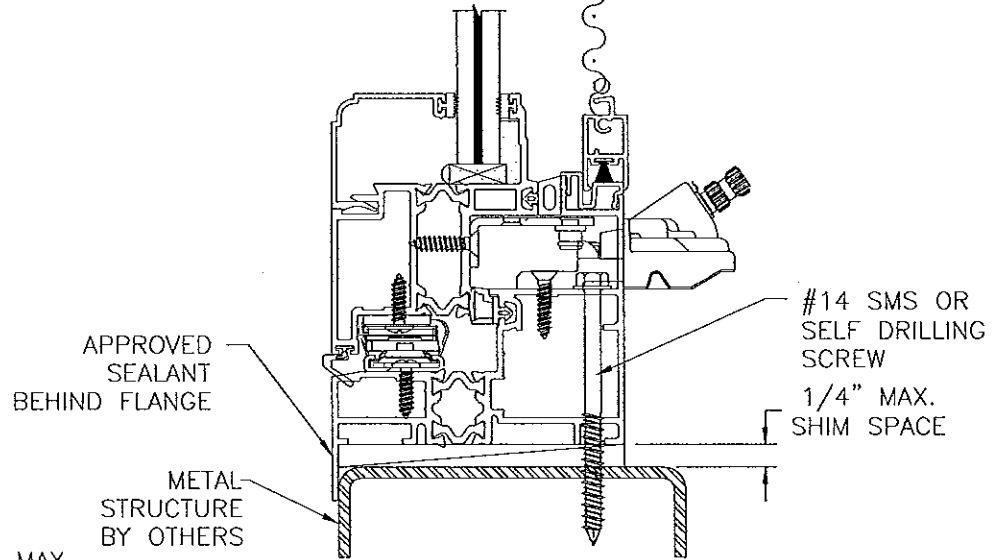
**A**  
9  
VERTICAL CROSS SECTION  
WOOD FRAMING OR 2X BUCK INSTALLATION  
REFER TO NOTES 2,3,12 AND 13 SHEET 1



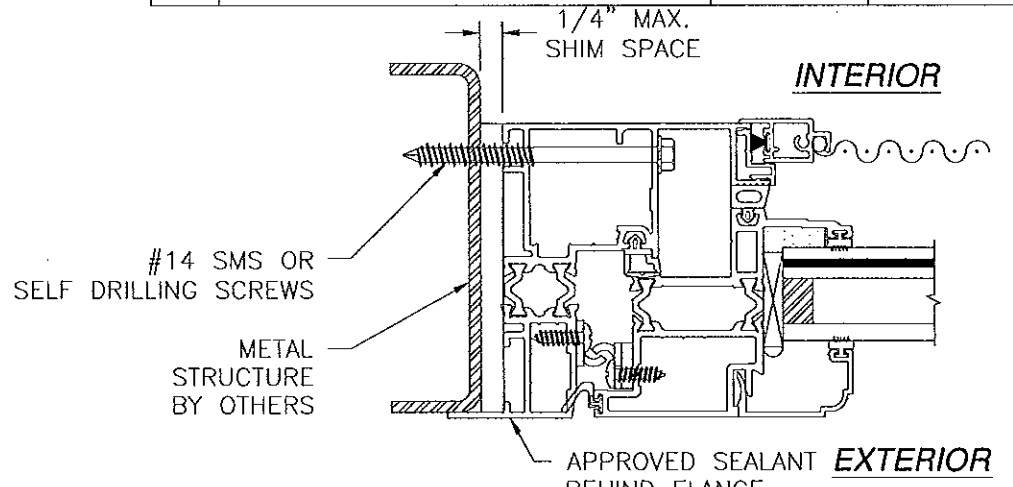
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VERTICAL CROSS SECTION  
WOOD FRAMING OR 2X BUCK INSTALLATION  
REFER TO NOTES 2,3,12 AND 13 SHEET 1



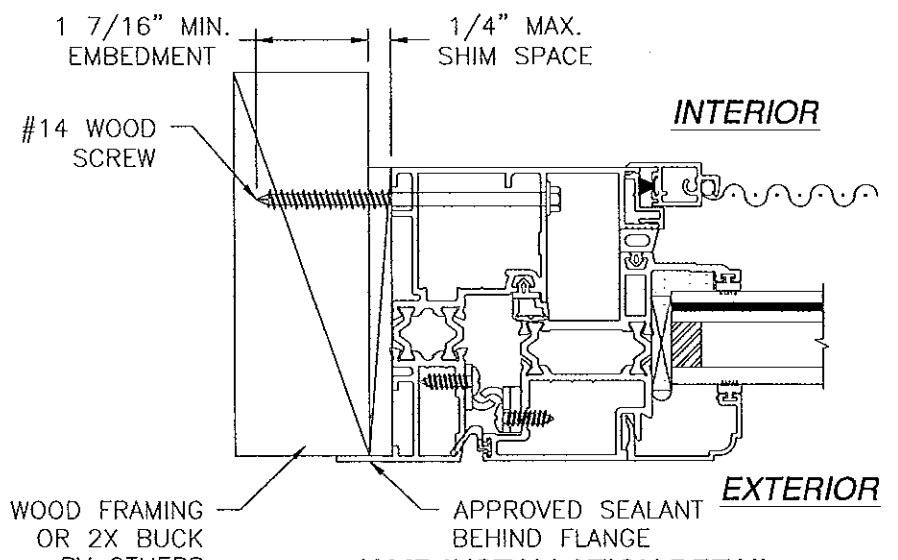
**B**  
9  
VERTICAL CROSS SECTION  
METAL STRUCTURE INSTALLATION  
REFER TO NOTES 2,3,12 AND 13 SHEET 1



**B**  
9  
VERTICAL CROSS SECTION  
METAL STRUCTURE INSTALLATION  
REFER TO NOTES 2,3,12 AND 13 SHEET 1



**B**  
9  
JAMB INSTALLATION DETAIL  
METAL STRUCTURE INSTALLATION  
REFER TO NOTES 2,3,12 AND 13 SHEET 1



**B**  
9  
JAMB INSTALLATION DETAIL  
WOOD FRAMING OR 2X BUCK INSTALLATION  
REFER TO NOTES 2,3,12 AND 13 SHEET 1  
SIGNED: 07/15/2013

NOTES:  
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.  
2. SEALANT JOINT BY OTHERS TO BE IN ACCORDANCE WITH ASTM E2112.

Approved as complying with the  
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Miami-Dade Product Control  
By [Signature]

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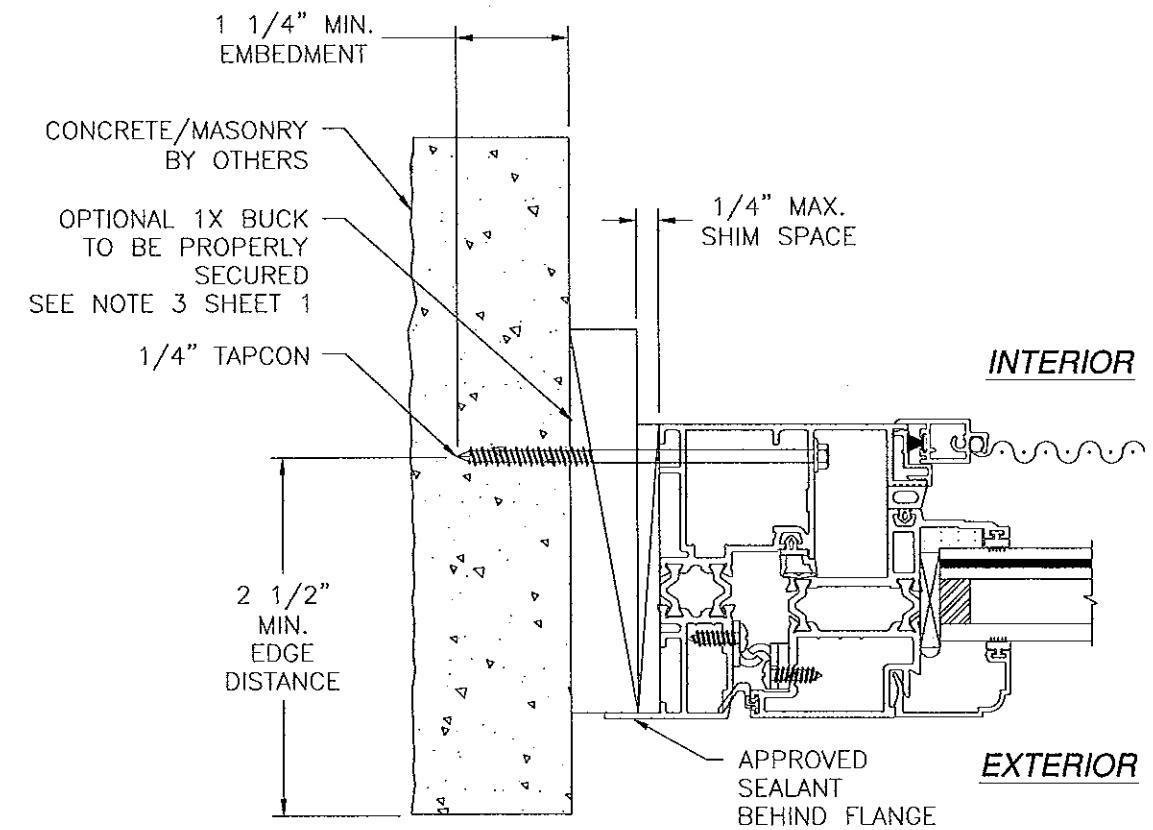
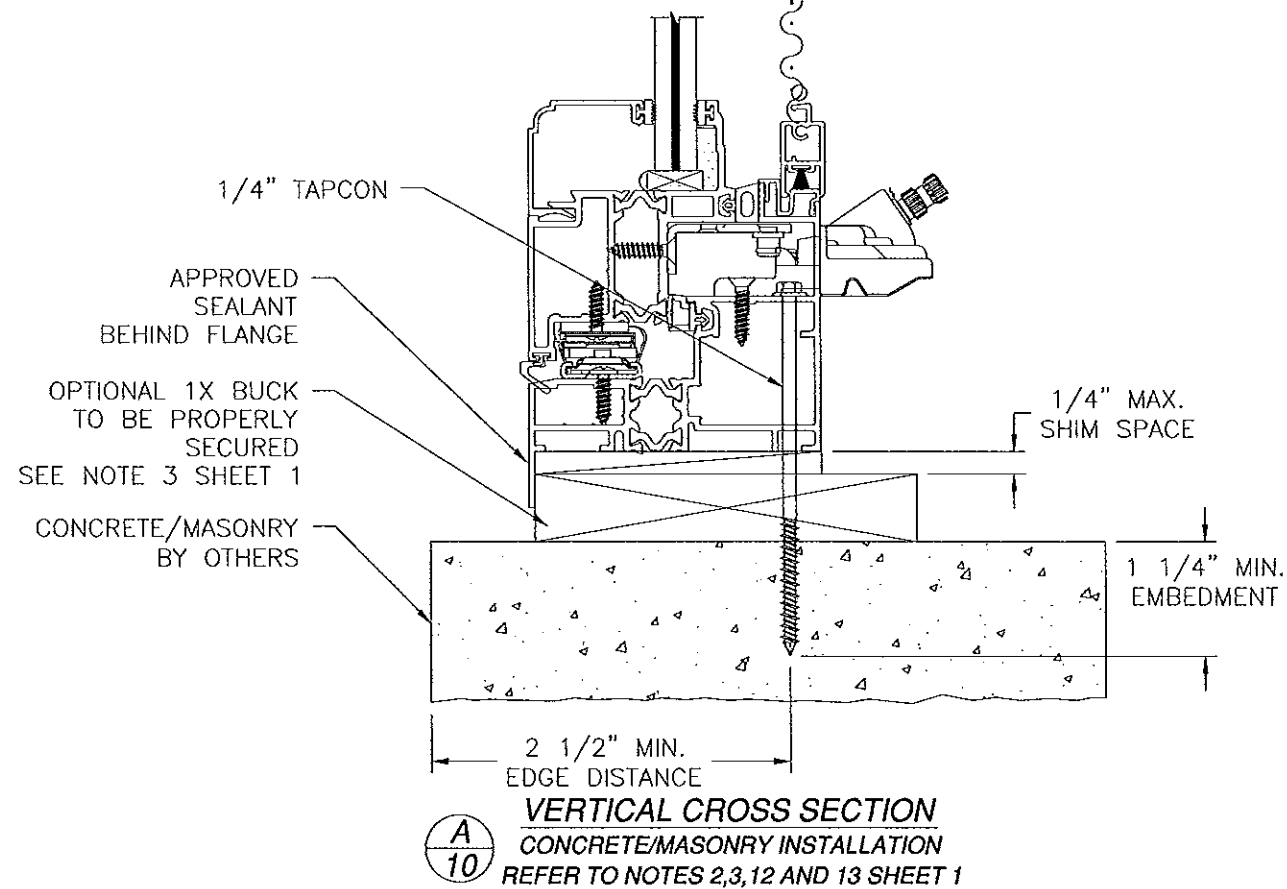
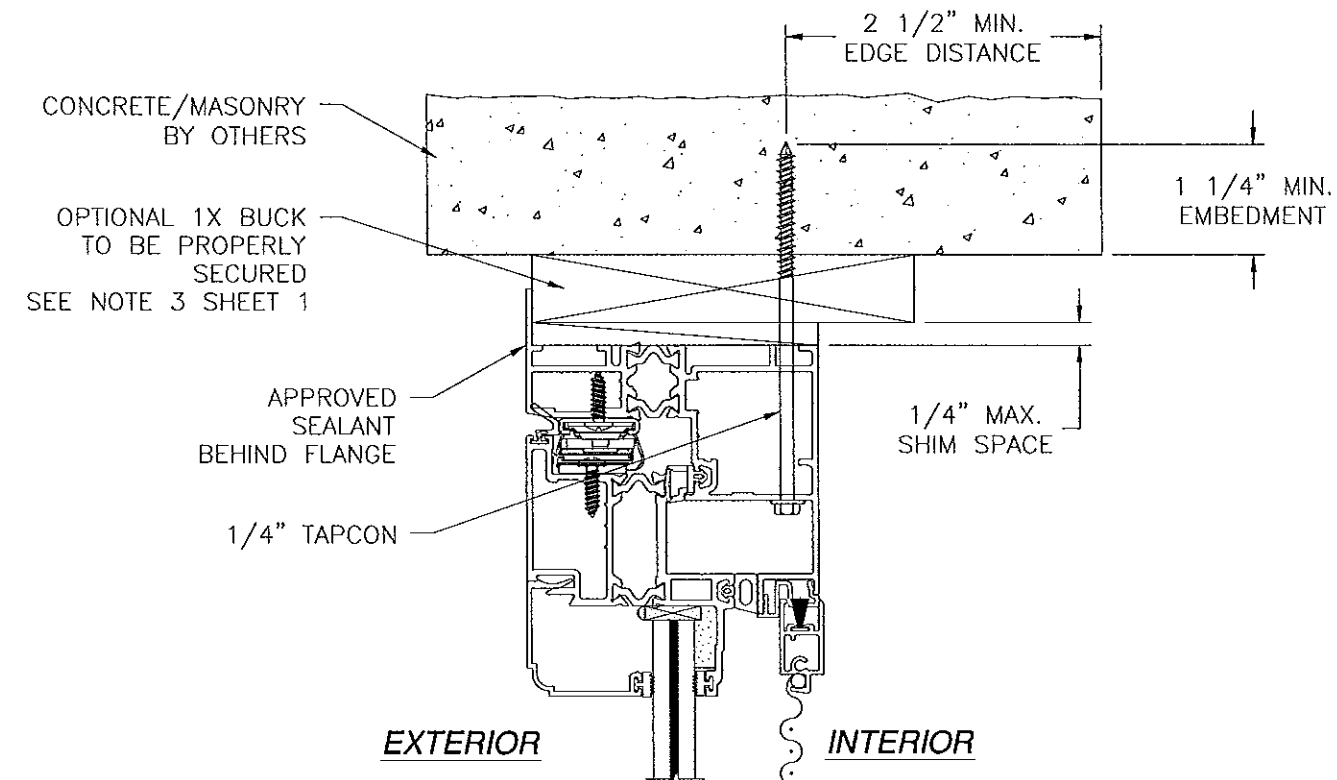
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Phone: 407.481.8400  
Fax: 407.481.0505  
www.windoorinc.com

9060 CASEMENT WINDOW  
LARGE MISSILE IMPACT  
FLANGE INSTALLATION DETAILS

DRAWN: V.L.	DWG NO. 08-01902	REV C
SCALE NTS	DATE 01/14/13	SHEET 9 OF 13

LUIS R. LOMAS  
LICENSED PROFESSIONAL ENGINEER  
No. 62514  
STATE OF FLORIDA

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED CHARTS & HARDWARE LAYOUTS	04/12/13	R.L.
B	REVISED PER MD COMMENTS	05/30/13	R.L.
C	REVISED NOTES AND B.O.M.	07/15/13	R.L.



**B**  
10  
**JAMB INSTALLATION DETAIL**  
CONCRETE/MASONRY INSTALLATION  
REFER TO NOTES 2,3,12 AND 13 SHEET 1

- NOTES:**
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
  2. SEALANT JOINT BY OTHERS TO BE IN ACCORDANCE WITH ASTM E2112.

SIGNED: 07/15/2013

Approved as complying with the  
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NOA# 13-0129.25  
Miami-Dade Product Control  
By [Signature]

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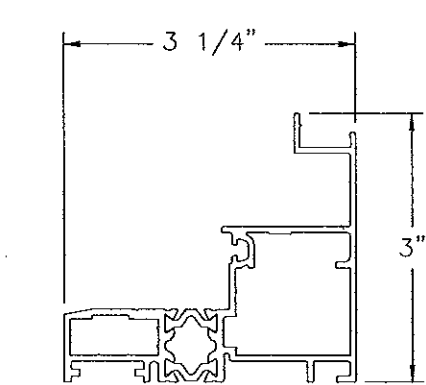
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9060 CASEMENT WINDOW  
LARGE MISSILE IMPACT  
FLANGE INSTALLATION DETAILS

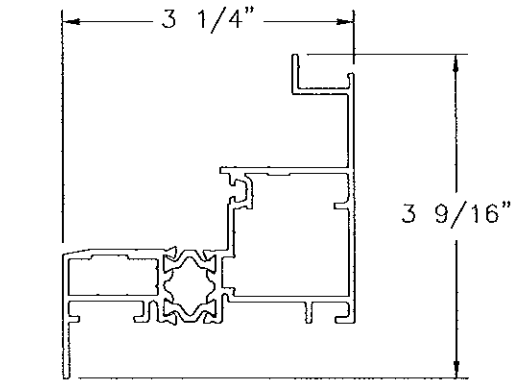
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SCALE NTS	DATE 01/14/13	SHEET 10 OF 13

LUIS R. LOMAS  
LICENSED  
No. 62514  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER

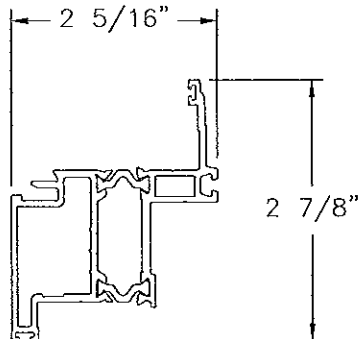
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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B	REVISED PER MD COMMENTS	05/30/13	R.L.
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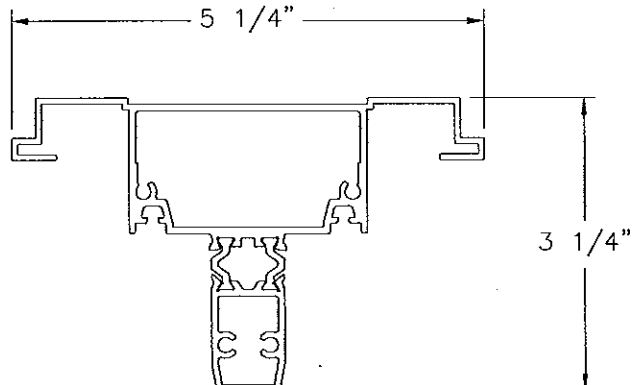
① **FRAME**  
ALUMINUM 6063-T6 .065" THICK



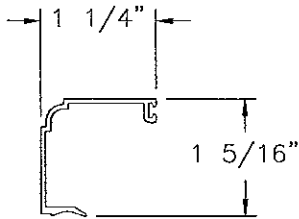
② **FLANGE FRAME**  
ALUMINUM 6063-T6 .065" THICK



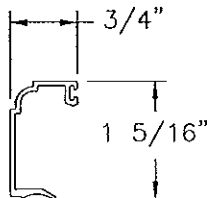
③ **SASH ASSEMBLY**  
ALUMINUM 6063-T6 .065" THICK



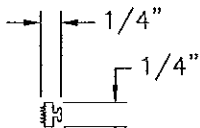
④ **COMMON POST**  
ALUMINUM 6063-T6 .065" THICK



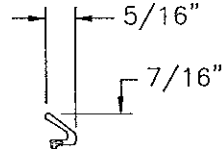
②① **GLASS STOP**  
ALUMINUM 6063-T6 .065" THICK



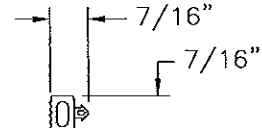
②② **GLASS STOP**  
ALUMINUM 6063-T6 .065" THICK



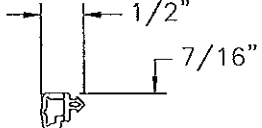
②③ **GLAZING VINYL**  
PVC 80 DUROMETER



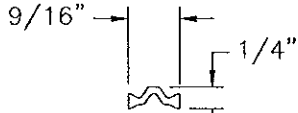
③① **FLAP SEAL**  
FOAM



③② **WEATHERSTRIP**  
EPDM 70 DUROMETER



③③ **WEATHERSTRIP**  
EPDM 75 DUROMETER



④⑥ **THERMAL STRUT**  
NYLON POLYAMIDE .070" THICK  
TENSILE STRENGTH 10,390 PSI

SIGNED: 07/15/2013

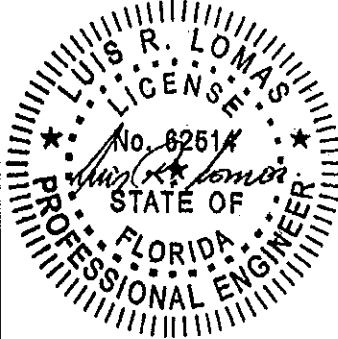
Approved as complying with the  
Florida Building Code  
Date 08/08/2013  
NOA# 13-012925  
Miami-Dade Product Control  
By [Signature]

**WinDoor**  
INCORPORATED

7500 AMSTERDAM DRIVE  
ORLANDO, FL 32832  
Phone: 407.481.8400  
Fax: 407.481.0505  
www.windoorinc.com

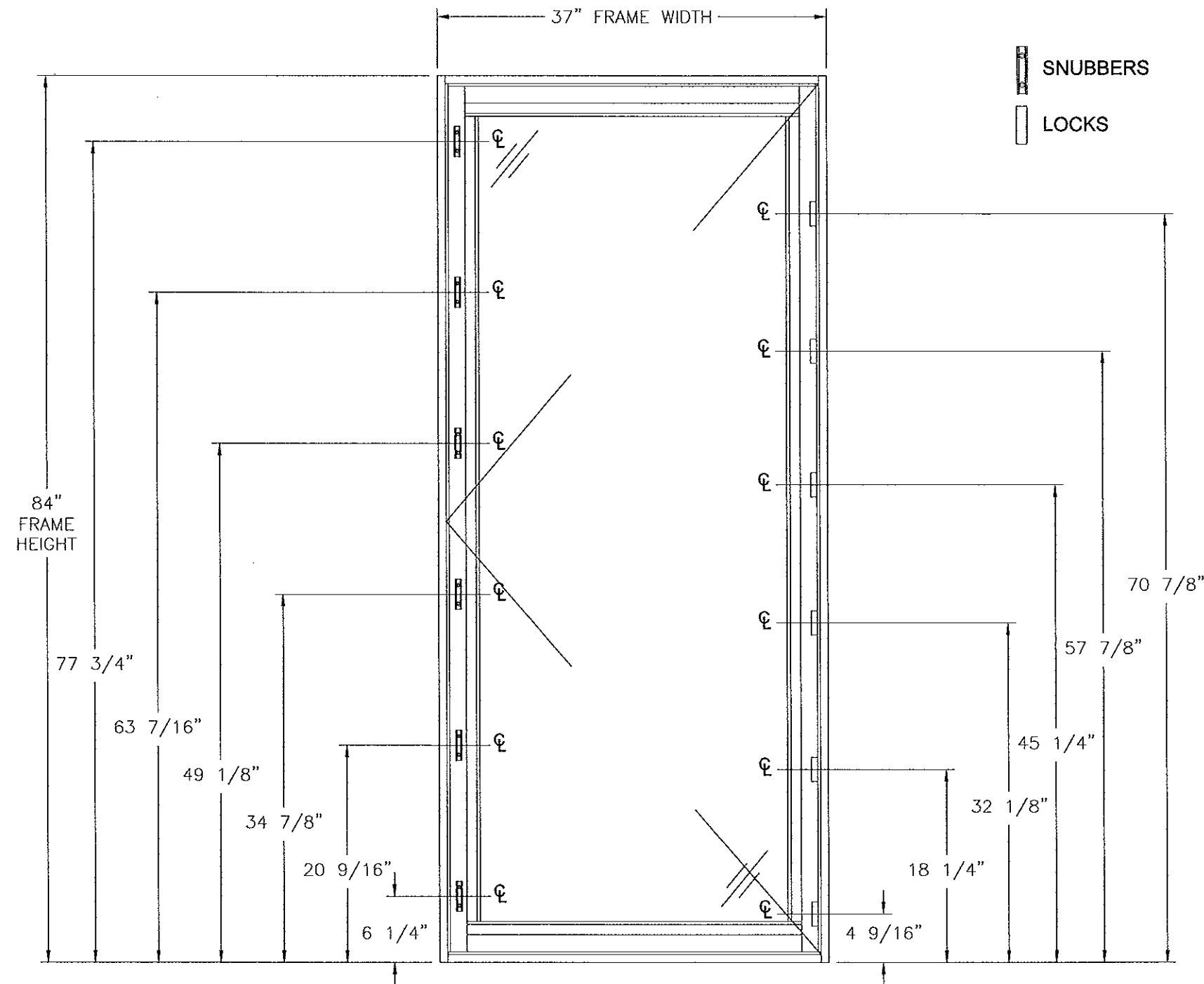
9060 CASEMENT WINDOW  
LARGE MISSILE IMPACT  
COMPONENTS



DRAWN: V.L.	DWG NO. 08-01902	REV C
SCALE NTS	DATE 01/14/13	SHEET 11 OF 13



REVISIONS

REV	DESCRIPTION	DATE	APPROVED
A	ADDED CHARTS & HARDWARE LAYOUTS	04/12/13	R.L.
B	REVISED PER MD COMMENTS	05/30/13	R.L.
C	REVISED NOTES AND B.O.M.	07/15/13	R.L.



 SNUBBERS  
 LOCKS

SINGLE UNIT LOCK AND SNUBBER LOCATIONS

SIGNED: 07/15/2013

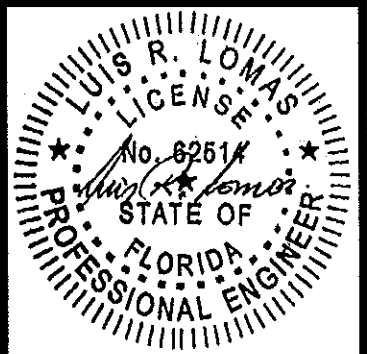
Approved as complying with the  
 Florida Building Code  
 Date 08/08/2013  
 NOA# 13-0129.25  
 Miami Trade Product Control  
 By [Signature]

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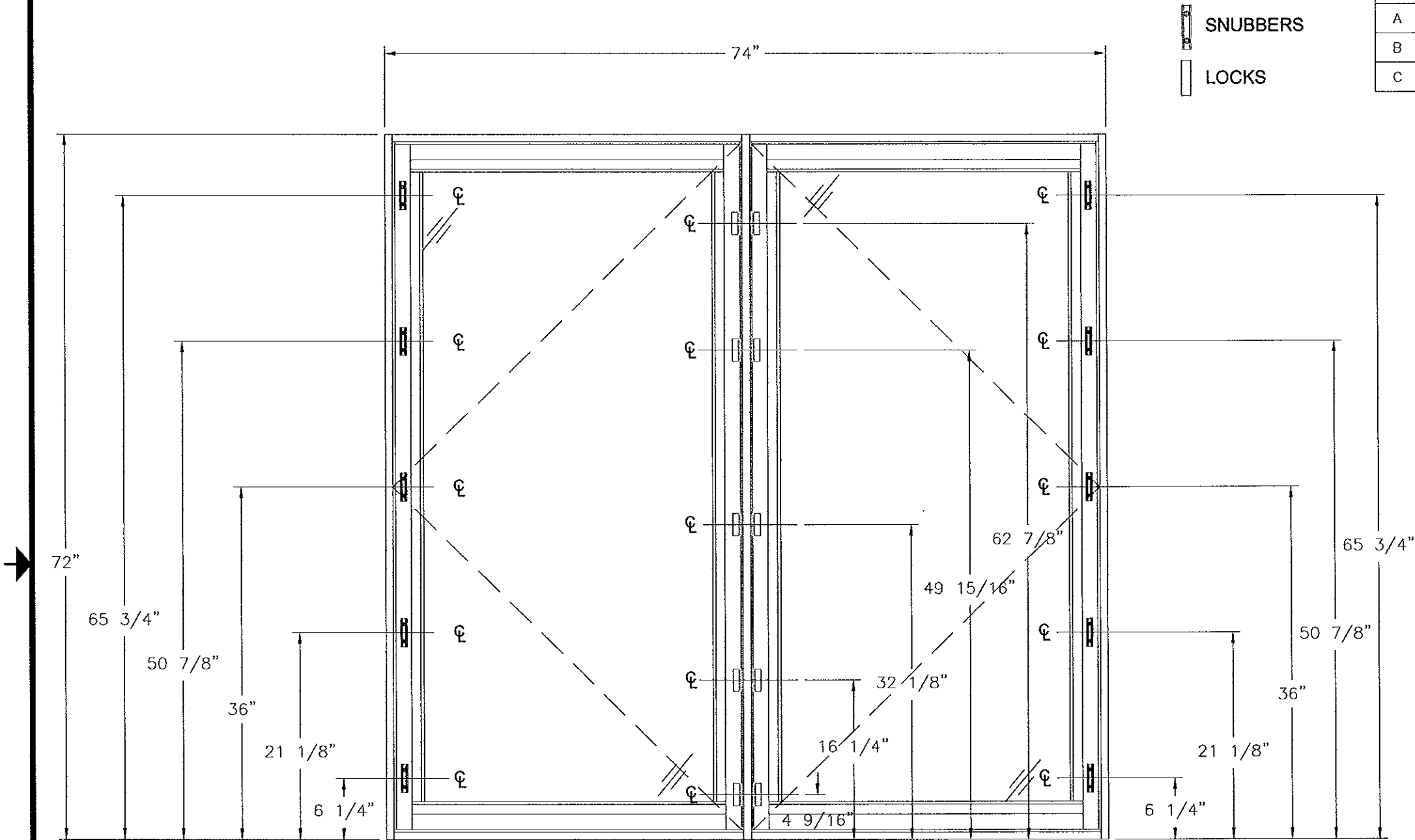
7500 AMSTERDAM DRIVE  
 ORLANDO, FL 32832  
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9060 CASEMENT WINDOW  
 LARGE MISSILE IMPACT  
 HARDWARE LAYOUTS

DRAWN: V.L.	DWG NO. 08-01902	REV C
SCALE NTS	DATE 01/14/13	SHEET 12 OF 13



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED CHARTS & HARDWARE LAYOUTS	04/12/13	R.L.
B	REVISED PER MD COMMENTS	05/30/13	R.L.
C	REVISED NOTES AND B.O.M.	07/15/13	R.L.



TWIN UNIT LOCKS AND  
SNUBBERS LOCATIONS

SIGNED: 07/15/2013

Approved as complying with the  
Florida Building Code  
Date 08/28/2013  
NOA# 13-0129.25  
Miami Dade Product Control  
By [Signature]

**WinDoor**  
INCORPORATED

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9060 CASEMENT WINDOW  
LARGE MISSILE IMPACT  
HARDWARE LAYOUTS

DRAWN: V.L.	DWG NO. 08-01902	REV C
SCALE NTS	DATE 01/14/13	SHEET 13 OF 13

PROFESSIONAL ENGINEER  
STATE OF FLORIDA  
No. 82514  
Luis R. Lomas